

CPC**COOPERATIVE PATENT CLASSIFICATION****B61C****LOCOMOTIVES**

MOTOR RAILCARS (vehicles in general [B60](#) ; frames or bogies [B61F](#) ; special railroad equipment for locomotives [B61J](#) , [B61K](#))

NOTE

This subclass covers :
 general design features or items of locomotives and motor railcars not otherwise provided for;
 non-electric features of electric locomotives

Guide heading: Locomotives or motor railcars in general or characterised by the types of motive power plant used

B61C 1/00 Steam locomotives or railcars (engines [F01](#) ; characterised by power transmissions [B61C 9/00](#) ; boilers [F22B](#))

B61C 1/02 . of articulated construction
 with two or more engines ([appliances of booster engines B61C 15/02](#))

B61C 1/04 . with steam accumulators ([steam accumulators F01K](#))

B61C 1/06 . Streamlining ([of coachwork B61D](#))

B61C 1/08 . Arrangement or disposition of combustion apparatus or accessories therefor

B61C 1/10 . Arrangement or disposition of steam generators

B61C 1/12 . Arrangement or disposition of condensers

B61C 1/14 . Arrangement or disposition of exhaust apparatus

B61C 3/00 Electric locomotives or railcars (characterised by power transmission [B61C 9/00](#) ; electrical features [B60L](#) ; [H02](#))

B61C 3/02 . with electric accumulators

B61C 5/00 Locomotives or motor railcars with IC engines or gas turbines (characterised by power transmission [B61C 9/00](#) ; engines [F02](#))

B61C 5/02 . Arrangement or disposition of intakes and apparatus for supplying, circulating, and filtering air for combustion and engine-cooling purposes

B61C 5/04 . Arrangement or disposition of exhaust apparatus

B61C 7/00**Other locomotives or motor railcars****B61C 7/02**

- . Locomotives or motor railcars with pneumatic accumulators

B61C 7/04

- . Locomotives or motor railcars with two or more different kinds or types of engine, e.g. steam and IC engines

B61C 8/00**Filling stations for steam- or pneumatic-accumulator locomotives or motor railcars****B61C 9/00****Locomotives or motor railcars characterised by the type of transmission system used****Transmission systems specially adapted for locomotives or motor railcars ([machine elements F16](#))****B61C 9/02**

- . Transmission systems in or for locomotives or motor railcars with reciprocating piston steam engines

B61C 9/04

- .. consisting of cranked axles and coupling rods

B61C 9/06

- .. having toothed, chain, friction, or belt gearing

B61C 9/08

- . Transmission systems in or for locomotives or motor railcars with IC reciprocating piston engines

B61C 9/10

- .. mechanical ([combined with hydraulic gearing B61C 9/14](#))

B61C 9/12

- ... with change-speed gearing

B61C 9/14

- .. hydraulic, including combinations with mechanical gearing

B61C 9/16

- ... using gearing of the hydrostatic type

B61C 9/18

- ... using gearing of the hydrokinetic type

B61C 9/20

- with mechanical change-speed gearing

B61C 9/22

- .. pneumatic

B61C 9/24

- .. electric ([B61C 9/38 takes precedence](#))

B61C 9/26

- .. with transmission shafts at an angle to the driving axles

B61C 9/28

- . Transmission systems in or for locomotives or motor railcars with rotary prime movers, e.g. turbines

B61C 9/30

- .. mechanical ([combined with hydraulic gearing B61C 9/34](#))

B61C 9/32

- ... with change-speed gearing

B61C 9/34

- .. hydraulic, including combinations with mechanical gearing

B61C 9/36

- .. electric ([B61C 9/38 takes precedence](#))

B61C 9/38

- . Transmission systems in or for locomotives or motor railcars with electric motor propulsion ([electrical features B60L](#))

B61C 9/40

- .. with cranked axles and coupling rods

B61C 9/42

- .. hydraulic

B61C 9/44

- .. with hollow transmission shaft concentric with wheel axis

B61C 9/46

- .. with motors forming parts of wheels

B61C 9/48

- .. with motors supported on vehicle frames and driving axles, e.g. axle or nose

	suspension
B61C 9/50	. . . in bogies
B61C 9/52	. . with transmission shafts at an angle to the driving axles
Guide heading:	Locomotives or motor railcars characterised by the type of means applying the tractive effort, or by their application to special railway systems or purposes
B61C 11/00	Locomotives or motor railcars characterised by the type of means applying the tractive effort Arrangement or disposition of running gear other than normal driving wheel (constructions wheels B60B)
B61C 11/005	. { tractive effort applied by a transported road vehicle (railway wagons or vans adapted for carrying vehicles in general B61D 3/18 ; vehicles for use both on rail and road, e.g. with rail and road wheels on the same axle B60F) }
B61C 11/02	. tractive effort applied to cables or chains
B61C 11/04	. tractive effort applied to racks
B61C 11/06	. tractive effort applied or supplied by aerodynamic force or fluid reaction, e.g. air-screws and jet or rocket propulsion
B61C 13/00	Locomotives or motor railcars characterised by their application to special systems or purposes (B61C 11/00 takes precedence; self-propelled scaffold cars, break-down cranes, inspection trolleys B61D 15/00 ; general design of track recording vehicles B61K 9/00)
B61C 13/02	. for towing or transporting ships or for like special purposes
B61C 13/04	. for elevated railways with rigid rails (B61C 13/08 takes precedence)
B61C 13/06	. for railways with suspended flexible tracks, i.e. rope railways
B61C 13/08	. for saddle or like balanced type railways
Guide heading:	Details or accessories not otherwise provided for
B61C 15/00	Maintaining or augmenting the starting or braking power by auxiliary devices and measures Preventing wheel slippage Controlling distribution of tractive effort between driving wheels (propelling locomotives or motor railcars by special means B61C 11/00 ; driving wheels with non-slipping devices B60B ; brakes B61H ; wetting or lubricating rails B61K)
B61C 15/02	. by auxiliary driving wheels by temporary coupling or use of fly wheels or booster engines
B61C 15/04	. by controlling wheel pressure, e.g. by movable weights or heavy parts or by magnetic devices (magnetic brakes B61H)

- B61C 15/045 .. { Specially adapted for tunnel systems vehicles e.g. with pressure increasing arrangements }
- B61C 15/06 .. by displacing fuel, ballast, or the like
- B61C 15/08 . Preventing wheel slippage (adjusting wheel-braking force to prevent wheel slippage [B60T 8/00](#) ; { removing undesirable matter from the permanent way of railways [E01H 8/00](#) })
- B61C 15/085 .. { by dispersion of a fluid, e.g. containing chemicals }
- B61C 15/10 .. by depositing sand or like friction increasing materials (for vehicles in general [B60B](#) ; combined control of sanding apparatus and brakes [B61H](#))
- B61C 15/102 ... { with sanding equipment of mechanical or fluid type, e.g. by means of steam }
- B61C 15/105 ... { with gravity activated sanding equipment }
- B61C 15/107 ... { with electrically or electromagnetically controlled sanding equipment }
- B61C 15/12 .. by reducing the driving power
- B61C 15/14 . controlling distribution of tractive effort between driving wheels
- B61C 17/00** **Arrangement or disposition of parts**
Details or accessories not otherwise provided for
Use of control gear and control systems
- B61C 17/02 . Bunkers
Tanks
Tenders ([coachwork B61D](#))
Water or fuel pick-up or scoop apparatus
Water or fuel supply fittings ([track-side installations, e.g. bunkers, tanks, for filling locomotives with sand or water B61K 11/00](#))
- B61C 17/04 . Arrangement or disposition of driving cabins, footplates or engine rooms
Ventilation thereof ([driving cabins and accessories B61D](#))
- B61C 17/06 . Power storing devices
- B61C 17/08 . Lubrication systems (in general [F16N](#))
- B61C 17/10 . Connecting-rods for driving wheels
Arrangements of their bearings ([connection-rods or bearings, in general F16C 7/00](#) , [B61C 9/04](#))
- B61C 17/12 . Control gear
Arrangements for controlling locomotives from remote points in the train or when operating in multiple units ([control from points outside the train B61L 3/00](#) ; [fluid-actuated telemotors, servomotors F15B](#) ; control devices in general [G05](#))